Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110-5126
651.481.9120 Fax: 651.481.9201
www.larsonengr.com

Larson

August 7, 2012

Patty
Greater Frogtown Development CDC
533 Dale Street North
St. Paul, MN 55103

Re: General Home Inspection
1185 Burr Street
St. Paul, MN
LEMN Project No: 11120796.000

Dear Patty,

I inspected the home at the above address. The home is a 2 story with the upper level and lower level being used as a duplex. The main level floor framing and basement level are in need of repair and reinforcing. Once the repairs are made, the home will be structurally sound.

The upper level appeared to have fairly level floors. There was indication of leaking from the roof, which appeared to crack the sheetrock, but there wasn't a lot of other cracking visible in the walls or ceiling at the upper level.

The main level showed evidence of sways in the floor. I will address the framing in the basement in the next portion. The floors felt solid and the bows in the floors followed the framing problems in the basement. The walls did not show excessive cracking.

The basement walls are a combination of limestone and masonry block. Apparently some portions of the lower level walls have been replaced at some point in time. The walls appeared to be in good shape. The basement was divided into 2 rooms. The first room is an all limestone foundation. The framing for the floors was cut up by the mechanical systems. Since this would not be a finished space, the floor could be shored up by adding several feet of walls in critical areas where the floor framing has been cut. The second room in the basement has had additional shoring added. Some of the columns that are existing will require footings to be added on top of the slab. This space would never be usable so the exposed footings would be acceptable.An opening was cut into the wall between the two rooms and no header installed. This needs to have a header installed as soon as work starts as it is dangerous condition as it is now. There is a portion by the furnace where the existing floor framing is sagging. An additional column is required in this area, with a footing, to help support the existing load. There is a possibility that another column and beam line may have to be installed near the far end of the basement. This would break the existing joist span in half on the far side of the second room. The existing joists

and beams will all need to be measured to determine if they are adequate and determine what repairs are necessary.

Another inspection will be required to measure all framing sizes and layout before our analysis can be completed. Please contact me when the final decision is made as to the feasibility of this project and we can schedule another inspection to draw up a basement support plan. This will detail the footings and other wood members that will be required. Please let me know if you have any additional questions or concerns.

Sincerely,
Larson Engineering, Inc.

Carol Ous
Senior Structural Engineer
MN license #25385

Neighborhood Energy Connection

Residential Energy Specification

Customer: City of Saint Paul

Address: 1185 Burr St

Auditor: Michael Childs

Phone: 651-221-4462 x145

Spec ID#	Spec Title	Specification	Location / Notes
104	Replace Furnace with 95% AFUE, Multi-stage, Forced Air Furnace	Remove existing furnace, recycle all metal components and dispose of all other materials in a code legal dump. Install a new ENERGY STAR rated, gas-fired, multi-stage burner, forced air furnace with a minimum AFUE rating of 95%+ and ECM Motor with 2" rise above floor. Connect to existing duct work and gas line. New furnace to be vented with PVC piping per manufacturer's specifications. New furnace will have minimum limited warranties of 20 years on heat exchangers; 5 years on parts. Include auto set back thermostat controls, vent pipe & new shut-off valve. Rework cold air return if necessary to ensure easy access, good fit & easy replacement of air filter. An exterior return air filter box shall be installed on one side, both sides or bottom of new furnace. Seal all exposed duct joints with duct mastic. Remove all existing cloth duct tape prior to installing mastic.	**Option 2.**
106	Replace Furnace and Water ~~Heater with a combined~~ space and water heating system for forced air	~~Install a 95%+ condensing water heater with a hydronic~~ air handler sized to meet load of the house for space and water heating. Consult NEC for more details if needed.	**Option 1.**

304	Replace Water Heater with Power Vented .67	Replace water heater with a power-vented water heater with an EF of .67. Include pressure & temperature release valve, discharge tube to within 6" of floor and PVC flue to power vent to exterior.	**Option 2.**
310	Install Central Air Conditioning Unit	Install 16 SEER split system central air conditioning unit, following local building code. Using OEM performance information and industry-approved procedures, confirm that the selected equipment satisfies/meets the load requirements at the system design conditions.	**No AC existing.**
500	Seal Attic Bypasses	Contractor shall seal all attic bypasses. Bypasses shall be defined as any break in the envelope of a house between a heated living space and an unheated area or exterior. Bypass locations include, but are not limited to, the following areas: chimneys, soil stacks, end walls, dropped ceilings, open plumbing walls and around duct work, electrical work and attic access points. Bypasses shall be sealed in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Materials to be used for sealing bypasses depend on the size and location of the bypass and meet code requirements. These materials include high quality caulks (20-year life span), polyethylene rod stock, foam, sheetrock, sheet metal, extruded polystyrene and densely packed insulation.	
510	Blow Open Attic to R-50	All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. Blow insulation to depth indicated on manufacturer's coverage chart, consistently and evenly to R-50. Insulation in the peak attic must be marked with a ruler to measure depth and a sign with the number of bags used and the date of the installation.	

530	Install Air Chutes	When soffit vents are installed or existing, a passage for air movement shall be cleared before insulating. Baffles or chutes shall be installed to maintain the passage of free air. Attic areas below the baffle or chute shall be insulated to R-50 or to capacity as space allows.	
532	Build Dam, insulate and weather strip attic hatch	Access hatch door to attic shall be insulated to R-44 and insulation dam constructed around opening. Opening shall be weather stripped to provide a tight seal.	
610	Wall insulation - Exterior Application: Remove Vinyl Siding, Drill, Dense Pack, Plug and Replace Siding	Siding shall be removed before drilling access holes. Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Completely fill each cavity to a consistent density. Dense pack cellulose to a minimum density of 3.5 lbs./ft^3 or dense pack spider fiberglass per manufacturer's instructions. Siding must be replaced without damage and nailed back with appropriate galvanized nails. Follow all applicable Lead Safe Work Practices as per the EPA's RRP Rules.	**Wall insulation method depends on extent of wall rehab.**
618	Wall insulation - Interior Application: Fiberglass batt open cavities	Fit batt insulation between studs so that it fills the wall cavity without any gaps, voids, or compression. Call the NEC before sheet rocking.	**Wall insulation method depends on extent of wall rehab.**
620	Wall insulation - Interior Application: Spray foam open cavities	Follow manufacturer's instructions to completely and evenly fill the cavity. Call the NEC for inspection before sheet rocking.	**Wall insulation method depends on extent of wall rehab.**
804	Air Seal and Insulate Rim Joist using rigid foam	Seal cracks and holes in rim joist before insulating. Caulk or foam 3 inches of rigid insulation in place.	**Option 2.**

806	Air Seal and Insulate Rim Joist using two-part foam	Apply two-part foam evenly and consistently according to manufacturer's instructions to insulate to R-10 around basement rim joist.	**Option 1.**
1000	Install ENERGY STAR Rated Kitchen Fan	Install an ENERGY STAR rated exhaust fan connected with insulated rigid ductwork into a dampered vent.	
1010	Install ENERGY STAR Rated 2-stage Bathroom Fan	Install an ENERGY STAR rated two-speed bathroom fan .8 sones or less, with a pre-set low-speed of 10-30 CFM and a high-speed boost capability of 70-110 CFM initiated by a wall switch or motion detector. Vent bathroom fan using rigid duct and insulated with fiberglass and vented out with dampered roof vent.	
1200	Replace incandescents with CFLs	Replace incandescent bulbs with ENERGY STAR rated compact fluorescent lights. Install fixtures that meet the lighting needs of the particular area.	
1210	Install ENERGY STAR Rated Washing Machine	Connect new ENERGY STAR rated clothes washer sized appropriately for the household. Use braided steel water supply lines and a smooth rubber drain line connected to a 2 inch drain with trap. Remove existing washer, recycle all metal components and dispose of all other materials in a code legal dump.	
1212	Install ENERGY STAR Rated Dishwasher	Install ENERGY STAR rated dishwasher including all alterations and connections to plumbing and electric system. Remove existing dishwasher, recycle all metal components and dispose of all other materials in a code legal dump.	
1214	Install ENERGY STAR Rated Refrigerator	Install ENERGY STAR rated refrigerator sized appropriately for the household. Remove existing refrigerator, recycle all metal components and dispose of all other materials in a code legal dump.	

Online Test Results

Test Number: Ok Help

Test Number: **6102514** Result: **0.7 pCi/l**

- This test was received for analysis on **03/17/2012**
- The total exposure time was **118 hours**
- Starting on **03/07/2012** at **9:00 am**
- Ending on **03/12/2012** at **8:00 am**

EPA Recommendations

The US EPA action level for indoor radon is 4.0 pCi/L. The EPA indicates that there is little sh in this range (0.6 to 1.9 pCi/L). However, because radon levels fluctuate daily, as well as sea retest during another season. Additionally, if you make any structural changes or start to use more frequently, you should test again.

Click here for EPA Radon Publications

Printed Reports?

Your formal written report is being mailed to the address entered into our computer when th purchased...OR...to the address that may have been printed on the sample packet by the en

You may use your Browser's print function to print out this abbreviated report or you have th our office to request a faxed copy. Additionally, you may click this link to send your request c box.

Click here to contact your state radon office

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Project Description
1185 Burr St., St. Paul, MN

Asbestos Abatement Associates was retained by Cindy Carlson of the City of St. Paul to conduct an Asbestos/Hazardous Materials Survey for a residential home located at 1185 Burr St., St. Paul, MN. We were asked to prepared this report (the Survey) and report the findings of the Survey.

The reason for the visit is to identify friable and non-friable asbestos containing materials which may become friable during renovation or demolition.

The home is approximately 113 years old. It has 3 levels and is approximately 2,604 sq. ft. The structure is made of concrete footing and brick foundation with concrete flooring throughout the basement. It is wood framed; wood sided with vinyl siding exterior. There are hardwood floor throughout. The walls and ceilings are plaster and sheetrock. The attic is insulated with cellulose. This home has an asphalt shingle roof. There is a 26x26 garage that is wood sided and wood framed with vinyl siding exterior and it has an asphalt roof. It is on a concrete slab. There is a total of 210 sq. ft. of assumed to contain Asbestos paper found on the heat vents and duct work throughout the house.

This Survey represented by Jacob Martin on January 24, 2012. The Survey Area consisted of accessible portions of the Building at the time of the Survey.

Copies of Mr. Martin's Asbestos Inspector certificate and license are included.

North Metro: 612-588-7755
St. Paul: 651-633-4060
South Metro: 612-823-2955
Fax: 612-588-6780
Email: abatement@popp.net

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Scope of Services
1185 Burr St., St. Paul, MN

- A destructive assessment of accessible portions of the building was conducted Jacob Martin, Asbestos Building Inspector **#9050.** Suspect Asbestos containing building materials were identified per current Minnesota Department of Health (MDH) Asbestos Abatement Rules and Occupational Safety and Health Administration (OSHA) regulations.

- Samples of suspect ACM identified during the Survey were collected for laboratory analysis in accordance with MDH and OSHA regulations.

- The location, estimated quantity, and condition of suspect ACM were documented.

- The presence and or quantity of other materials such as hazardous wastes or building materials that would be classified as special wastes for demolition were documented.

- The presence and or quantity of equipment that could contain polychlorinated biphenyls (PCBs), ozone depleting chemicals (ODC's), and mercury or other regulated metals was documented.

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St. Paul: 651-633-4000 *Fax: 612-588-6780*
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Sampling Methodology
1185 Burr St., St. Paul, MN

- Asbestos Abatement Associates identified homogenous building materials in accordance with the Environmental Protection Agency (EPA) Asbestos Hazardous Emergency Response Act (AHERA) 40 CFR Part 763, Subpart E as specified in MDH and OSHA rules and regulations. Homogenous areas are defined as areas of surfacing materials, thermal system insulation materials or other miscellaneous materials which upon examination for properties such as age, color, size and texture appear to be composed of the same material.

- The building materials are collected from randomly selected locations throughout the building where the material is found to be present. Samples of these materials are assumed to be representative of that material wherever it is found throughout the building.

- Samples of potential ACMs were collected by Asbestos Abatement Associates and were analyzed using Polarized Light Microscopy (PLM) by Carolina Environmental, Inc., in Cary, NC. NVLAP's National Voluntary Laboratory Accreditation Program code number is 10768-0. (Copy of Lab Qualification Included) The MDH, OSHA, and EPA define ACM as a material which contains greater than one percent asbestos by qualitative or quantitative analysis

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1185 Burr St., St. Paul, MN

techniques. The EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) requires quantitative analysis, commonly referred to as a "point count", for all qualitative analysis results when asbestos is detected in concentrations less than one to ten percent. However, under common practice, qualitative results greater than three and less than ten percent are often accepted to be ACM.

Testing Results

Asbestos Abatement Associates collected a total of twenty (20) samples of suspect (ACM) that were analyzed by Carolina Environmental, Inc.

See Survey/Sample Results in table on the next pages with the sample results in the page following.

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Sample Results
1185 Burr St., St. Paul, MN

Sample #2 is the 2nd layer of flooring tan in kitchen apt. #2 and was found to contain 2% Chrysotile Asbestos containing material and must be removed by a State Licensed Asbestos Contractor with the estimated cost for removal $1,050.00.

Sample #5 is floor tile wood grain design in dining room apt. #2 and was found to contain 2% Chrysotile Asbestos containing material and must be removed by a State Licensed Asbestos Contractor with the estimated cost for removal $250.00.

Sample #8 is ivory floor tile in the stairwell apt. #2 and was found to contain 2% Chrysotile Asbestos containing material and must be removed by a State Licensed Asbestos Contractor with the estimated cost for removal $650.00.

Assumed to Contain Items are Listed as Follows:

- Paper on heat vents apartment #2 with estimated cost for removal $2,235.00
- Paper on heat vents apartment#1 with estimated cost for removal $1,235.00
- Paper on ductwork in the basement with estimated cost for removal $835.00

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All other items tested were found to be non-asbestos containing listed as follows:

Apartment #2:

- Top layer sheet flooring in kitchen but must removed due to 2nd layer contains 15x13
- 3rd layer brown flooring in kitchen 15x13
- White window glazing bedroom #1 10 total
- Black mastic in dining room under floor tile 13x1 strip
- White sink under coating kitchen 1 sink
- Black mastic under floor tiles in stairwell 8x7

Apartment #1:

- Sheet flooring only tan bathroom 7x6
- Floor tile ivory w/grey design kitchen 15x13
- Black mastic under kitchen flooring 15x13
- Light brown ceiling texture bedroom #2 13x10
- White ceiling texture bedroom #1 13x8
- Light brown ceiling texture living room 15x13
- White ceiling texture hallway 14x5
- White ceiling texture living room 15x13
- White ceiling texture bedroom #2 13x10
- Sheet flooring tans kitchen closet 4x3
- Brown window glazing kitchen 1 total

Hazardous Waste Items Found On Site

- 1 fuel oil tank
- 2 refrigerators
- 2 smoke detectors
- 2 stoves
- 1 thermostat
- 2 water heaters

The estimated cost for removal of Hazardous Waste items is $650.00 not including the fuel oil tank.

Fuel oil tanks list can be removed by Dean's Tank by contacting them at: 763-535-0194

APT. #2

CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

City of St Paul

1183 [illegible] St.

[illegible]

7 [illegible] of 2

Date: 1/17/13

JACOB MARTIN

1	Sub Floor Only	1st Layer [illegible]	Kitchen 15 x 15		
2	Only	2nd Layer Tan			
3		3rd Layer Tan			
4	Window Glazing	White	Bedroom #1 [illegible]		
5	Floor Tile	Wood Grain Design	Dining Room 13 x 1[illegible]		
6	& Mastic #5	Black			
7	Under Coating	White	Kitchen Sink Hotel		
8	Floor Tile	[illegible]	Stairwell 8x7		
9	& Mastic #8	Black			

CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

City of St. Paul

St. Paul [illegible]

Inspector: JACOB MARTIN

10	Sheet Flooring only	Tan	Bathroom 7X[illegible]		
11	Floor Tile	[illegible]	Kitchen 15X[illegible]		
12	Mastic #1	Black			
13	Ceiling Tile	Lt. Brown	Bedroom #[illegible] 13X10		
14	Ceiling Texture	White	Bedroom #1 13X8		
15	Ceiling Tile	Lt. Brown	Living Room 15X15		
16	Ceiling Texture	White	Hallway 14X5		
17	Ceiling Texture	White	Living Room 15X15		
18	Ceiling Texture	White	Bedroom #2 13X10		
19	Sheet Flooring Only	Tan	Kitchen Closet 4X3		
50	[illegible]	[illegible]	[illegible]		

CEI LABS

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: (919) 481-1413 Fax: (919) 481-1442

LABORATORY REPORT
ASBESTOS BULK ANALYSIS

Client: Asbestos Abatement Associates
3125 Logan Ave. N
Minneapolis , MN 55411

Project: City of St. Paul 1185 Burr St

CEI Lab Code: A12-0479
Received: 01-19-12
Analyzed: 01-20-12
Reported: 01-20-12
Analyst: Megan Brooks

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
1	A1242169 Heterogeneous	SHEET FLOORING Grey White Fibrous Bound BIND 30% CELL 25% VINYL 30 FBGL 10% MAST 5%	ND
2	A1242170A Heterogeneous	FLOOR TILE White Non-fibrous Bound CHRY 2% VINYL 60% CACO 38%	CHRY 2%
	A1242170B Heterogeneous	MASTIC Black Non-fibrous, Bound TAR 95% CELL 5%	ND
3	A1242171 Heterogeneous	SHEET FLOORING Brown Fibrous Bound TAR 30% CELL 40% VINYL 30%	ND
4	A1242172 Heterogeneous	WINDOW GLAZING White Non-fibrous Bound BIND 95 PAINT 5	ND
5	A1242173 Heterogeneous	FLOOR TILE Tan Non-fibrous, Bound CHRY VINYL 60 CACO 38%	CHRY 2%

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: City of St. Paul: 1185 Burr St.

Lab Code: A12-0479

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
6	A1242174	MASTIC Heterogeneous, Black, Non-fibrous, Bound TAR 95 % CELL 5 %	ND
7	A1242175	SINK UNDERCOATING Heterogeneous, White, Fibrous, Bound BIND 70 % CELL 30 %	ND
8	A1242176	FLOOR TILE Heterogeneous, Tan, Non-fibrous, Bound CHRY 2% VINYL 60 % CACO 38 %	CHRY 2%
9	A1242177	MASTIC Heterogeneous, Black, Non-fibrous, Bound TAR 95 % CELL 5 %	ND
10	A1242178	SHEET FLOORING Heterogeneous, Tan, Fibrous, Bound BIND 30 % CELL 25 % VINYL 30 % FBGL 10 % MAST 5 %	ND
11	A1242179	FLOOR TILE Heterogeneous, Tan, Grey, Non-fibrous, Bound VINYL 60 % CACO 40 %	ND
12	A1242180	MASTIC Heterogeneous, Clear, Non-fibrous, Bound MAST 95 % CELL 5 %	ND

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Project: City of St. Paul: 1185 Burr St.

Lab Code: A12-0479

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
13	A1242181	CEILING TILE Heterogeneous, White, Tan, Fibrous, Loosely Bound BIND 5 % CELL 60 % PAINT 5 % FBGL 20 % PERL 10 %	ND
14	A1242182	CEILING TEXTURE Heterogeneous, White, Non-fibrous, Bound BIND 60 % PAINT 10 % VER 30 %	ND
15	A1242183	CEILING TILE Heterogeneous, White, Tan, Fibrous, Loosely Bound BIND 5 % CELL 60 % PAINT 5 % FBGL 20 % PERL 10 %	ND
16	A1242184	CEILING TEXTURE Heterogeneous, White, Non-fibrous, Bound BIND 60 % PAINT 10 % VER 30 %	ND
17	A1242185	CEILING TEXTURE Heterogeneous, White, Non-fibrous, Bound BIND 60 % PAINT 10 % VER 30 %	ND
18	A1242186	CEILING TEXTURE Heterogeneous, White, Non-fibrous, Bound BIND 60 % PAINT 10 % VER 30 %	ND
19	A1242187	SHEET FLOORING Heterogeneous, Tan, Fibrous, Bound BIND 30 % CELL 25 % VINYL 30 % SYNT 15 %	ND

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Project: City of St. Paul: 1185 Burr St.

Lab Code: A12-0479

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
20	A1242188	WINDOW GLAZING	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		BIND 95 %	
		PAINT 5 %	

The following definitions apply to the abbreviations used in the ASBESTOS BULK ANALYSIS REPORT:

CHRY = Chrysotile	CELL = Cellulose	DEBR = Debris
AMOS = Amosite	FBGL = Fibrous Glass	BIND = Binder
CROC = Crocidolite	CACO = Calcium Carbonate	SILI = Silicates
TREM = Tremolite	SYNT = Synthetics	GRAV = Gravel
ANTH = Anthophyllite	WOLL = Wollastonite	MAST = Mastic
ACTN = Actinolite	CERWL = Ceramic Wool	PLAS = Plaster
N D = None Detected	NTREM = Non-Asbestiform Tremolite	PERL = Perlite
NANTH = Non-Asbestiform Anthophyllite	FBGY = Fibrous Gypsum	RUBR = Rubber
		VER = Vermiculite

CLIENT: Asbestos Abatement Associates

PROJECT: City of St. Paul: 1185 Burr St.

CEI LAB CODE: A12-0479

Stereoscopic microscopy and polarized light microscopy coupled with dispersion staining is the analytical technique used for sample identification. The percentage of each component is visually estimated by volume. These results pertain only to the samples analyzed. The samples were analyzed as submitted by the client and may not be representative of the larger material in question. Unless notified in writing to return samples, CEI Labs will discard all bulk samples after 30 days.

Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tile does not necessarily exclude the presence of asbestos. Transmission electron microscopy provides a more conclusive form of analysis for vinyl floor tiles.

It is certified by the signature below that CEI Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for the analysis of asbestos in bulk materials. The accredited test method is EPA / 600 / M4-82 / 020 for the analysis of asbestos in building materials. Procedures described in EPA / 600 / R-93 / 116 have been incorporated where applicable. The detection limit for the method is 0.1% (trace amount). CEI Labs's NVLAP accreditation number is #101768-0. This report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. This report and its contents are only valid when reproduced in full. Dust and soil analyses for asbestos using PLM are not covered under NVLAP accreditation.

ANALYST

REVIEWED BY

Tianbao Bai, Ph.D.
Laboratory Director

End of Report

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

The structure is ready to be demolished only after the Friable Asbestos containing items are removed by an Asbestos contractor. The non-friable Asbestos can remain in place for demolition but you must make the landfill aware the debris has non-friable class nine materials mixed in. Non Friable Asbestos containing materials are subject to the MPCA rules and notifications.

All hazardous materials need to be managed properly and removed prior to demolition. The following is a sample of hazardous building materials:

- Polychlorinated Biphenyls (PCBS) found in light ballasts, capacitors, HVAC systems, and transformers.
- Mercury found in fluorescent lamps, switches, vapor lamps, thermostats, metal halide lamps, high pressure sodium lamps, neon lamps, manometers, and gauges. Many mercury containing materials were used in appliances, HVAC systems, or industrial switches or controls, thermocouples, temperature sensors, and other electrical equipment.
- Pb based paint that is not adhering to the substrate.
- Refrigerants/CFCs/HCFCs are found in refrigerators, AC systems, drinking fountains, dehumidifiers, vending machines, heat pumps, chillers, freezers, ice machines, food display cases.
- Appliances including stoves, refrigerators, furnaces, air exchangers, water heaters, etc.
- Chemicals, oils, batteries, paint cans, agricultural chemicals, other hazardous building materials.
- Trash, furniture, mattresses, engine parts, construction waste, etc.

Sincerely,
Jacob Martin

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St. Paul: 651-633-4060 *Fax: 612-588-6780*
Email: abatenow@popp.net

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Sampling Area Measurements for Abatement
1185 Burr St., St. Paul, MN

Sample #2 2nd layer flooring tan in kitchen apt.#2	15x13
Sample #5 floor tile wood grain design dining room apt. #2	13x1 strip
Samples #8 floor tile ivory apt. #2 stairwell	8x7
Assumed: paper on heat vents Apt. #2	150 sq. ft.
Assumed: paper on heat vents apt. #1	40 sq. ft.
Assumed: duct work paper	20 sq. ft.

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St. Paul: 651-633-4060 *Fax: 612-588-6780*
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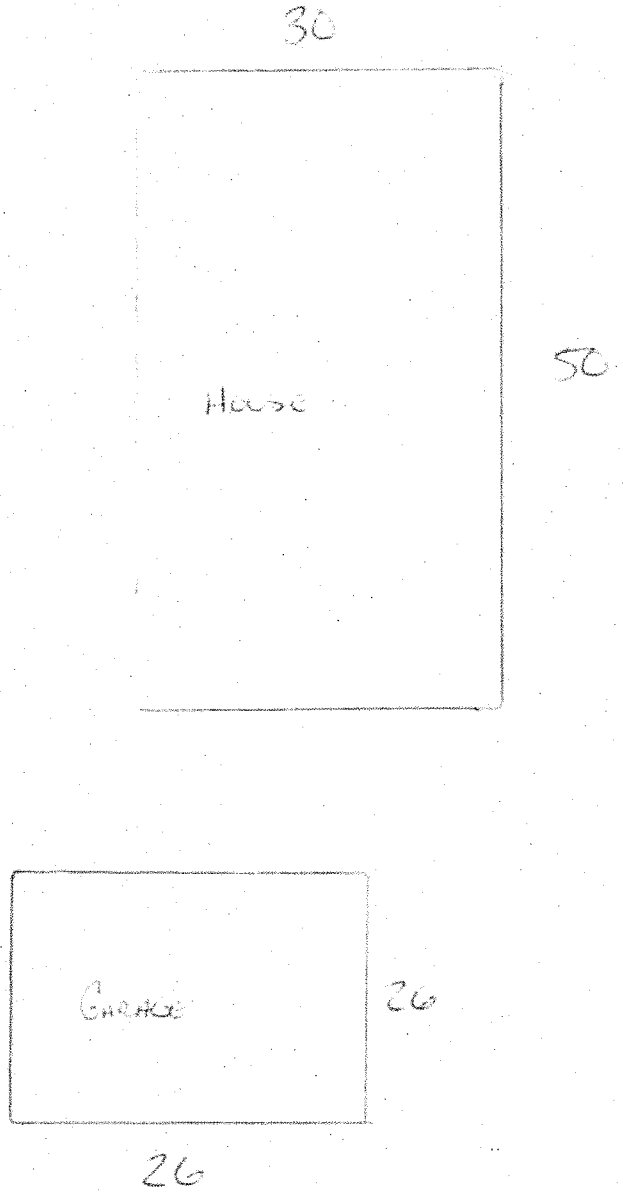
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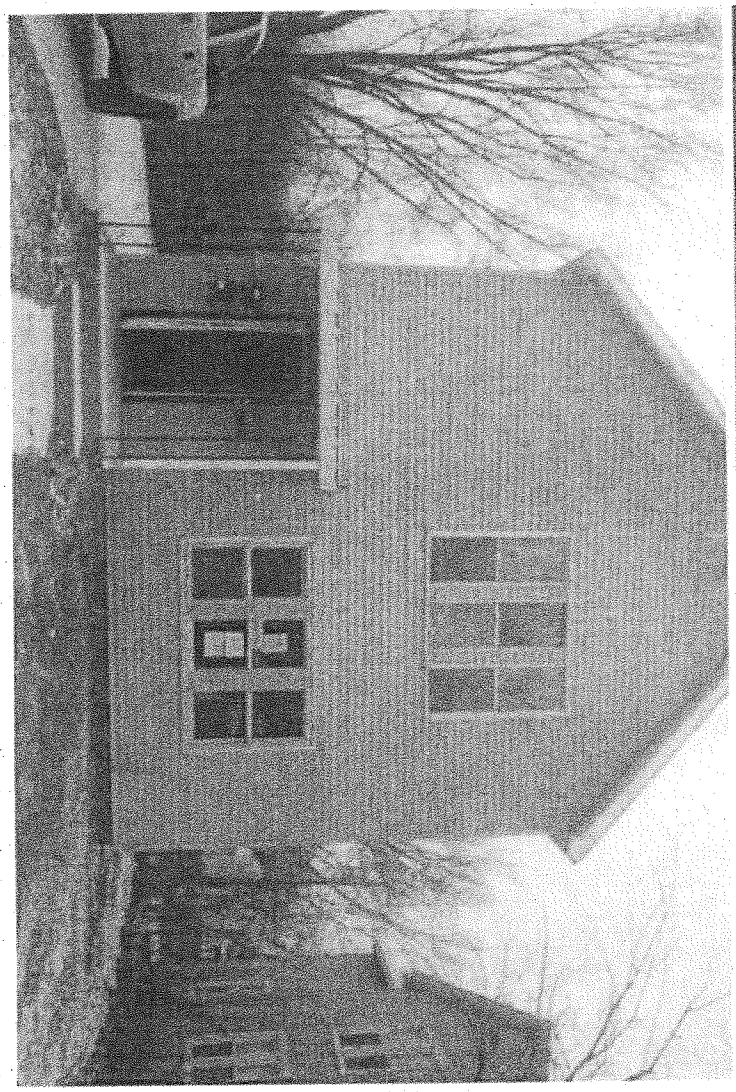
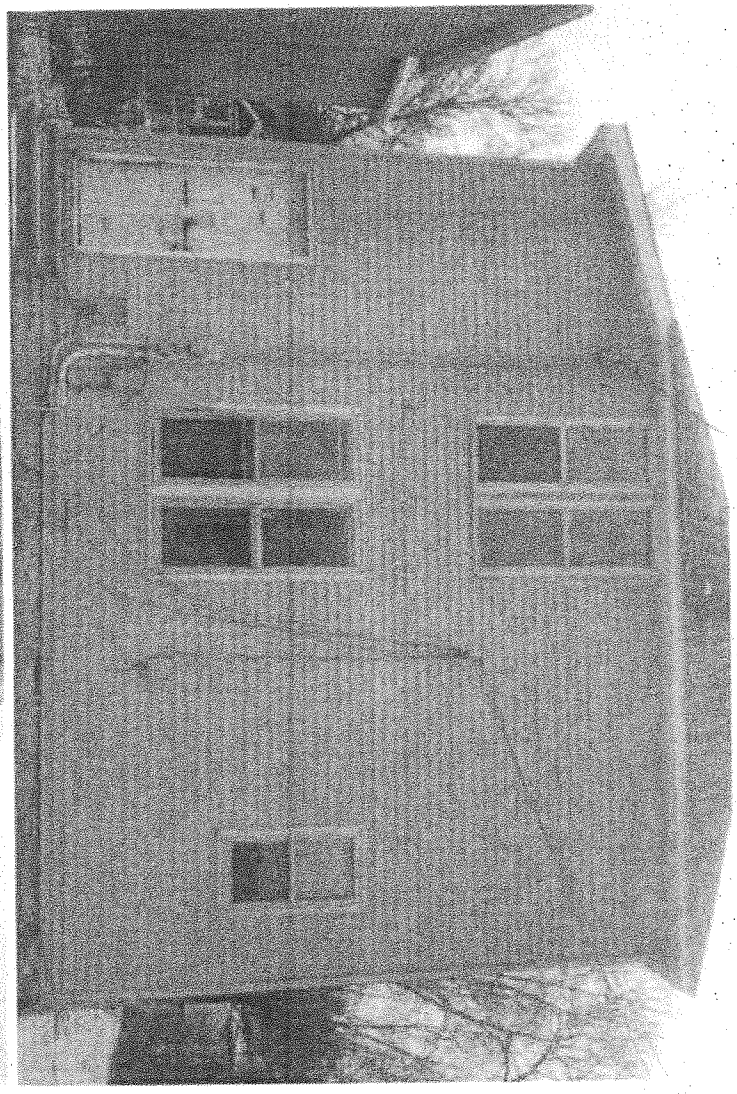
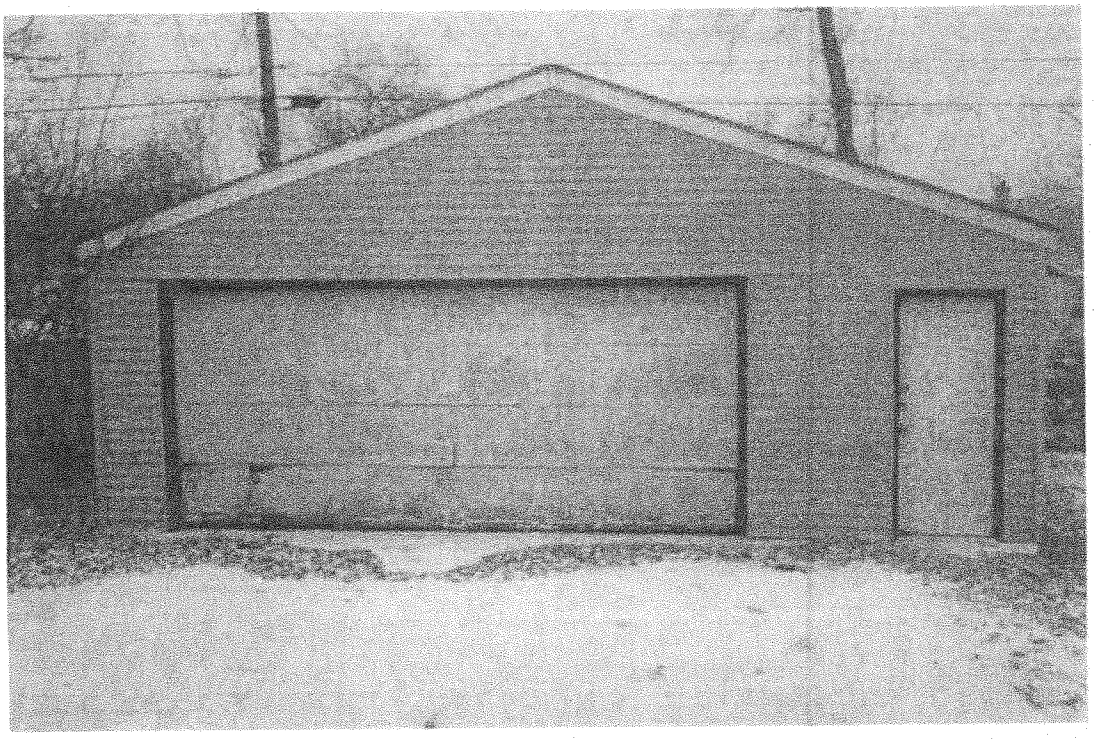
House
50
Garage
26
26







United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101768-0

Carolina Environmental, Inc.

Cary, NC

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2009-04-01 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Carolina Environmental, Inc.
107 New Edition Court
Cary, NC 27511
Dr. Tianbao Bai
Phone: 919-481-1413 Fax: 919-481-1442
E-Mail: bai@ceilabs.com
URL: http://www.ceilabs.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101768-0**

NVLAP Code	***Designation / Description***
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2009-04-01 through 2010-03-31
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

Certificate No: 5LM08111101H *Expiration Date: August 11, 2012*

This is to certify that

Jacob Martin Sr.

has attended and successfully completed an

ASBESTOS INSPECTOR

INITIAL TRAINING COURSE

permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722

and meets the requirements of

Section 206 of Title II of the Toxic Substances Control Act (TSCA)

conducted by

Lake States Environmental, Ltd.

in

White Bear Lake, MN on August 9 - 11, 2011

Examination Date: August 11, 2011

Lake States Environmental, Ltd
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811

Robert R Maney

Training Instructor

MDH ASBESTOS INSPECTOR

Certified by:
State of Minnesota
Department of Health
Expires: 08/11/2012

Jacob M Martin
1933 Glenwood Pkwy
Golden Valley, MN 55422

Director, Env. Health Div

No. AI9050 Issued: 09/09/2011

Home Energy Rating Certificate

1185 Burr St

St Paul, MN 55106

5 Stars Plus
Confirmed

Uniform Energy Rating System — **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: **70**

General Information

Conditioned Area:	2856 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	24108 cubic ft.	Foundation:	Conditioned basement
Bedrooms:	3		

Mechanical Systems Features

Heating:	Fuel-fired hydronic distribution, Natural gas, 95.0 AFUE.
Cooling:	Air conditioner, Electric, 16.0 SEER.
Water Heating:	Conventional, Natural gas, 0.67 EF, 40.0 Gal.
Duct Leakage to Outside:	RESNET/HERS default
Ventilation System:	Exhaust Only: 60 cfm, 13.0 watts.
Programmable Thermostat:	Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat:	R-50	Exposed Floor:	NA
Vaulted Ceiling:	NA	Window Type:	NFRC .32 / .32
Above Grade Walls:	R-13	**Infiltration:**	
Foundation Walls:	R-0.0	Rate:	Htg: 2485 Clg: 2485 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Interior Lighting:	90.00	Range/Oven Fuel:	Natural gas
Percent Garage Lighting:	0.00	Clothes Dryer Fuel:	Natural gas
Refrigerator (kWh/yr):	691.00	Clothes Dryer EF:	2.67
Dishwasher Energy Factor:	0.46	Ceiling Fan (cfm/Watt):	0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.98

Registry ID:
Rating Number:
Certified Energy Rater: Michael Childs
Rating Date: 4/30/2012
Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost
Confirmed

Use	MMBtu	Cost	Percent
Heating	115.5	$1046	51%
Cooling	1.6	$48	2%
Hot Water	18.8	$169	8%
Lights/Appliances	27.1	$606	30%
Photovoltaics	-0.0	$-0	-0%
Service Charges		$180	9%
Total		**$2049**	**100%**

This home meets or exceeds the minimum criteria for all of the following:

TITLE
Company
Address
City, State, Zip
Phone #
Fax #

Angstrom Analytical &
Environmental Services

5001 Cedar Lake Road * St. Louis Park, MN 55416
952-252-0405 952-252-0407 fax

January 25, 2012

Asbestos Abatement Associates
3125 Logan Ave N
Minneapolis, MN 55411
612-588-7755

Owner:
City of St. Paul
15 Kellogg Blvd.
St. Paul, MN 55102
651-266-8989

Lead-Based Paint Inspection
1185 Burr Street St. Paul, MN
Duplex

This report provides the results of lead-based paint testing conducted on January 18, 2012 at 1185 Burr Street. The property is a multi-family residential property located in St. Paul, MN. The inspection was conducted by Kevin Hagen (MN Lic. No. LR 2036). Angstrom Analytical, Inc. was authorized by you to conduct an inspection for lead-based paint using a field portable x-ray fluorescence (XRF) analyzer. The purpose of this assessment was to determine if lead based paint exists at the above referenced property.

The property consists of a two story multi family home with a full basement. The basement is unfinished. There was a garage on the property. According to Zillow.com the property was built in 1899. For sample location purposes, side A of the building is the side facing Burr Street. and is lettered clockwise around the building. The exteriors consist of a vinyl siding with wood trim work, fascia, soffit and metal gutters, all with painted finishes. Building foundation is concrete. Bare soil was not observed around the property due to the snow cover. No soil samples were collected. At a minimum, the Minnesota Dept. of Health recommends bare soils be made intact by covering them over with either sod, landscaping stone or mulch.

The interior has been remodeled with most of the windows being painted, uniform in size and are of the double hung type. The cabinets in the bathrooms and kitchen are painted and the closed shelf components are unpainted.

Results
Results of XRF analysis are summarized in the following report (see Appendix A), which utilize Department of Housing and Urban Development (HUD) thresholds (see remarks) for lead-based

paint. Painted surfaces are rated on condition as Intact, Fair or Poor. Intact surfaces are free of visual damage/deterioration. Fair or poor rating indicates the paint is damaged and is deteriorated. Any condition listed as fair or poor is a deteriorated condition. The inspection was conducted using HUD "Guidelines for the Evaluation and Control of Lead Based Paint in Housing" using the October 1997 revised Chapter 7 protocols. The sampling criteria used are found in the HUD Standards 24 CFR Part 35 et al.

Methodology

Testing was accomplished using a Niton XL 300 series. This instrument is a portable, non-destructive, in-site testing and measurement instrument that renders an average precision of +/- 0.3 milligrams per square centimeter (mg/cm^2) depending upon the length of time the sample point is tested. The XRF uses a source of Cd-109. Specific precision limits are established by the National Institute of Standards and Technology (NIST). The XRF instrument was checked using the NIST Standard Reference for calibration checks. The instrument's operational mode is standard paint mode. This instrument is operated by Minnesota Department of Health licensed lead inspectors. Where conclusive results were not obtained by XRF testing, confirmatory paint chip samples were or can be collected for laboratory analysis. The XRF instrument was calibrated, using a known lead paint film, at the beginning, every four hours and at the end of each day.

Remarks

The Lead-Based Paint Poisoning Prevention Act (LBPPA) has established an action level for public housing. Under the statute, lead-based paint hazards equal to or greater than 1.0 mg/cm^2 or 0.5 percent by weight must be abated. It is important to keep in mind that the testing results of a component also apply to any similar component not tested. For example, if a white, painted baseboard tests positive then the entire white painted baseboard in that room is also considered positive.

All sampling was conducted by representatives of Angstrom Analytical, Inc. Standards for private or commercial housing may vary by locality.

Results

The results of the portable x-ray fluorescence (XRF) analysis of the representative building components are listed in appendix A. All paint testing was conducted using the XRF unit. The XRF was calibrated and the beginning of each days inspection, during the inspection and at the end of each days inspection. Calibration was conducted on known lead paint films provided by the manufacturer. The results of the calibrations are within acceptable limits of the Performance Characteristic Sheet for the instrument. XRF results are expressed in units of milligrams per square centimeter (mg/cm^2) (see Remarks for action levels). XRF results are classified as positive or negative. A component that tests positive indicates leads is present at or above the standard (see Remarks).

Discussion

Painted building components were assessed visually for condition. Paint is rated on its condition as intact, fair and poor. Intact means good condition, Fair means less than two square feet of damage to a large interior surface or less than 10 square feet to a large exterior surface or less than 10% damage to a small surface area. Poor condition means greater than 2 square feet of damage on large interior surface, more than 10 square feet on a large exterior surface or more than 10% damage to a small surface area. Painted surfaces listed as in fair or poor condition are considered deteriorated. Based on our inspection findings, lead based paint was identified on the following:

- Window components
- Ceilings
- Cabinets
- Door components
- Stair stringers
- Baseboards
- Flooring
- Siding
-

Lead Based Painted Components

- The brown painted wood door components at the main entrance.
- The brown painted wood baseboard at the main entrance.
- The brown painted wood baseboards in the living room.
- The brown painted wood window trim in the living room.
- The brown painted door trim in the living room.
- The brown painted wood baseboard in the 1st floor hallway.
- The brown painted wood door trim in the 1st floor hallway.
- The green painted wood closet door in bedroom #1
- The brown painted wood closet door trim in bedroom #1
- The white painted plaster walls in the closet of the 1st floor bedroom #1
- The white painted wood baseboard in the closet of the 1st floor bedroom #1
- The brown painted wood window trim in the 1st floor bedroom #1
- The white painted wood window trim in the 1st floor bedroom #2
- The white painted wood baseboard in the 1st floor bedroom #2
- The brown painted wood chair rail in the 1st floor kitchen.
- The brown painted wood baseboard in the 1st floor kitchen.
- The brown painted wood window trim in the 1st floor kitchen.
- The brown painted wood door components in the 1st floor kitchen.

- The green painted drywall ceiling in the 1st floor kitchen.
- The brown painted wood cabinets in the 1st floor kitchen.
- The white painted wood cabinets in the 1st floor bathroom.
- The tan painted drywall interior cabinet in the 1st floor bathroom.
- The white painted drywall walls in the 1st floor bathroom.
- The brown painted wood wall trim in the 1st floor bathroom.
- The brown painted wood door components in the 1st floor bathroom.
- The white painted wood window trim in the 1st floor bathroom.
- The brown painted wood stair stringer at the front stair leading to the 2nd floor.
- The brown painted wood window components in the stairwell leading to the 2nd floor.
- The brown painted wood baseboard on the 2nd floor landing.
- The tan painted wood door components at the closet on the 2nd floor landing.
- The white painted wood window components in the 2nd floor front room.
- The white painted wood baseboard in the 2nd floor front room.
- The white painted wood baseboard in the 2nd floor front room closet.
- The brown painted wood baseboard in the 2nd floor living room closet.
- The white painted wood baseboard in the 2nd floor south room.
- The white painted wood window components in the 2nd floor south room.
- The white painted wood door trim in the 2nd floor south room.
- The white painted wood cabinets in the 2nd floor kitchen.
- The white painted wood baseboards in the 2nd floor kitchen.
- The white painted wood window components in the 2nd floor kitchen.
- The white painted plaster walls in the 2nd floor bathroom.
- The white painted wood baseboards in the 2nd floor bathroom.
- The white painted wood door trim in the 2nd floor bathroom.
- The gray painted wood floor in the 2nd floor back stairwell.
- The brown painted wood floor in the closet of the 2nd floor back stairwell.
- The brown painted stair treads leading to the basement.
- The pink painted cabinets in the basement.
- The beige colored vinyl siding on the exterior.
- The white painted metal soffits.
- The brown painted wood door components throughout exterior.
- The white painted metal clad window trim throughout exterior.

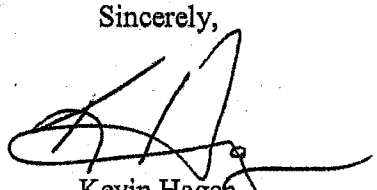
Please refer to the Lead Based Paint Testing Report (Appendix A) for specific locations and conditions. At a minimum, surfaces in fair to poor condition need to be stabilized. Intact lead based paint surfaces are not considered a hazard. However they do need to be maintained in an intact condition and periodically monitored. Specific surfaces not identified in this report should be treated as lead based unless testing proves otherwise.

Recommendations

Angstrom Analytical recommends that lead related work be performed by trained individuals and follow all applicable regulations regarding lead and lead hazards. If you are using federal funding you are required to use qualified firms, knowledgeable in hazards associated with lead and are certified / licensed to perform lead remediation services. A copy of this report must be provided to purchasers/lessees on this property under Federal law, 24 CFR part 35 and 40 CFR part 745.

If you have any questions or need further assistance, please call us at the number above.

Sincerely,



Kevin Hagen
Angstrom Analytical, Inc.

89	1/18/2012 13:14	cal in					1185 BURR			Null	1	0.1
90	1/18/2012 13:15	cal in					1185 BURR			Positive	1.1	0.1
91	1/18/2012 13:15	cal in					1185 BURR			Positive	1.1	0.1
92	1/18/2012 13:15	cal in					1185 BURR			Positive	1.1	0.1
93	1/18/2012 13:19	DOOR	WOOD	A	INTACT	BROWN	1185 BURR	FIRST	entrance	Positive	1.9	0.5
94	1/18/2012 13:20	DOOR trim	WOOD	A	INTACT	BROWN	1185 BURR	FIRST	entrance	Positive	10.8	4.7
95	1/18/2012 13:20	BASEBOARD	WOOD	A	INTACT	BROWN	1185 BURR	FIRST	entrance	Positive	11.1	7.2
96	1/18/2012 13:20	WALL	PLASTER	A	INTACT	WHITE	1185 BURR	FIRST	entrance	Negative	< LOD	0.03
97	1/18/2012 13:21	CEILING	PLASTER		INTACT	WHITE	1185 BURR	FIRST	entrance	Negative	< LOD	0.03
98	1/18/2012 13:22	WALL	PLASTER	D	INTACT	leaf	1185 BURR	FIRST	LIVING ROOM	Negative	< LOD	0.17
99	1/18/2012 13:22	BASEBOARD	WOOD	D	INTACT	TAN	1185 BURR	FIRST	LIVING ROOM	Negative	< LOD	0.12
100	1/18/2012 13:23	BASEBOARD	WOOD	D	INTACT	BROWN	1185 BURR	FIRST	LIVING ROOM	Positive	2.4	0.9
101	1/18/2012 13:23	WINDOW	WOOD	D	INTACT	WHITE	1185 BURR	FIRST	LIVING ROOM	Negative	< LOD	0.03
102	1/18/2012 13:24	WINDOW trim	WOOD	D	INTACT	BROWN	1185 BURR	FIRST	LIVING ROOM	Positive	2.3	0.9
103	1/18/2012 13:24	DOOR	METAL	B	INTACT	WHITE	1185 BURR	FIRST	LIVING ROOM	Negative	< LOD	0.03
104	1/18/2012 13:25	DOOR trim	WOOD	B	PEELING	BROWN	1185 BURR	FIRST	LIVING ROOM	Positive	1.5	0.5
105	1/18/2012 13:26	BASEBOARD	WOOD	B	PEELING	BROWN	1185 BURR	FIRST	HALL	Positive	17.6	6.3
106	1/18/2012 13:26	DOOR trim	WOOD	B	INTACT	BROWN	1185 BURR	FIRST	HALL	Positive	17.4	5.3
107	1/18/2012 13:27	WALL	PLASTER	B	INTACT	WHITE	1185 BURR	FIRST	HALL	Negative	< LOD	0.03
108	1/18/2012 13:27	CEILING	PLASTER		INTACT	YELLOW	1185 BURR	FIRST	HALL	Negative	< LOD	0.03
109	1/18/2012 13:29	CEILING	PLASTER		INTACT	WHITE	1185 BURR	FIRST	bedroom 1	Negative	< LOD	0.03
110	1/18/2012 13:29	WALL	PLASTER	C	CRACKEI	WHITE	1185 BURR	FIRST	bedroom 1	Null	< LOD	0.18
111	1/18/2012 13:30	closet door	WOOD	A	INTACT	GREEN	1185 BURR	FIRST	bedroom 1	Positive	13.7	5.2
112	1/18/2012 13:30	closet door trim	WOOD	A	INTACT	BROWN	1185 BURR	FIRST	bedroom 1	Positive	15.8	5.8
113	1/18/2012 13:31	closet wall	PLASTER	B	INTACT	WHITE	1185 BURR	FIRST	bedroom 1	Null	0.9	0.2
114	1/18/2012 13:32	closet wall	PLASTER	B	INTACT	WHITE	1185 BURR	FIRST	bedroom 1	Positive	1.2	0.2
115	1/18/2012 13:32	closet baseboar	WOOD	B	INTACT	WHITE	1185 BURR	FIRST	bedroom 1	Positive	2.5	0.9
116	1/18/2012 13:33	WINDOW	WOOD	B	INTACT	WHITE	1185 BURR	FIRST	bedroom 1	Negative	< LOD	0.03
117	1/18/2012 13:34	WINDOW trim	WOOD	B	INTACT	BROWN	1185 BURR	FIRST	bedroom 1	Positive	16.7	6.1
118	1/18/2012 13:35	WINDOW trim	WOOD	D	INTACT	WHITE	1185 BURR	FIRST	bedroom 2	Positive	16.8	6
119	1/18/2012 13:35	WINDOW	WOOD	D	INTACT	WHITE	1185 BURR	FIRST	bedroom 2	Negative	< LOD	0.06
120	1/18/2012 13:36	DOOR trim	WOOD	B	PEELING	BROWN	1185 BURR	FIRST	bedroom 2	Negative	< LOD	0.36
121	1/18/2012 13:36	BASEBOARD	WOOD	C	INTACT	WHITE	1185 BURR	FIRST	bedroom 2	Positive	13.4	5.3
122	1/18/2012 13:37	WALL	DRYWALL	C	INTACT	WHITE	1185 BURR	FIRST	bedroom 2	Negative	< LOD	0.03
123	1/18/2012 13:38	closet floor	WOOD		INTACT	TAN	1185 BURR	FIRST	bedroom 2	Negative	< LOD	0.07
124	1/18/2012 13:40	WALL	DRYWALL	C	INTACT	WHITE	1185 BURR	FIRST	KITCHEN	Negative	< LOD	0.03
125	1/18/2012 13:40	chair rail	WOOD	C	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Positive	7.9	1.3
126	1/18/2012 13:41	BASEBOARD	WOOD	C	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Positive	7.8	3.6
127	1/18/2012 13:41	WINDOW	WOOD	C	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Negative	< LOD	0.03

128	1/18/2012 13:41	WINDOW trim	WOOD	C	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Positive	13.3	5.2
129	1/18/2012 13:42	DOOR	WOOD	D	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Positive	13.9	5.6
130	1/18/2012 13:42	DOOR trim	WOOD	D	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Positive	14.3	4.8
131	1/18/2012 13:43	CEILING	DRYWALL		CRACKEI	GREEN	1185 BURR	FIRST	KITCHEN	Positive	24.6	7.5
132	1/18/2012 13:44	CABINET	WOOD	D	INTACT	TAN	1185 BURR	FIRST	KITCHEN	Negative	< LOD	0.03
133	1/18/2012 13:44	CABINET	WOOD	B	INTACT	BROWN	1185 BURR	FIRST	KITCHEN	Positive	8.9	3.7
134	1/18/2012 13:45	CABINET	WOOD	A	INTACT	WHITE	1185 BURR	FIRST	BATHROOM	Positive	5.2	2.7
135	1/18/2012 13:46	CABINET interi	DRYWALL	A	CRACKEI	TAN	1185 BURR	FIRST	BATHROOM	Positive	3	1.5
136	1/18/2012 13:47	WALL	DRYWALL	A	CRACKEI	WHITE	1185 BURR	FIRST	BATHROOM	Positive	4.6	2.6
137	1/18/2012 13:47	WALL trim	WOOD	A	INTACT	BROWN	1185 BURR	FIRST	BATHROOM	Positive	10	4.8
138	1/18/2012 13:48	DOOR	WOOD	D	FAIR	BROWN	1185 BURR	FIRST	BATHROOM	Positive	14.8	5.6
139	1/18/2012 13:48	DOOR trim	WOOD	D	FAIR	BROWN	1185 BURR	FIRST	BATHROOM	Positive	21.1	7
140	1/18/2012 13:49	WINDOW	WOOD	B	INTACT	WHITE	1185 BURR	FIRST	BATHROOM	Negative	< LOD	0.03
141	1/18/2012 13:49	WINDOW trim	WOOD	B	INTACT	WHITE	1185 BURR	FIRST	BATHROOM	Positive	16.9	6.1
142	1/18/2012 13:50	CEILING	DRYWALL		INTACT	WHITE	1185 BURR	FIRST	BATHROOM	Negative	< LOD	0.17
143	1/18/2012 13:52	sringer	WOOD	B	INTACT	BROWN	1185 BURR	SECOND	front str	Positive	9.1	4.2
144	1/18/2012 13:52	hand rail	WOOD	B	INTACT	BROWN	1185 BURR	SECOND	front str	Negative	< LOD	0.05
145	1/18/2012 13:53	WINDOW	WOOD	B	INTACT	BROWN	1185 BURR	SECOND	front str	Positive	< LOD	9
146	1/18/2012 13:53	WINDOW trim	WOOD	B	INTACT	BROWN	1185 BURR	SECOND	front str	Positive	8.7	4.3
147	1/18/2012 13:54	WALL	DRYWALL	B	INTACT	WHITE	1185 BURR	SECOND	front str	Negative	< LOD	0.04
148	1/18/2012 13:54	CEILING	DRYWALL		INTACT	WHITE	1185 BURR	SECOND	front str	Negative	< LOD	0.03
149	1/18/2012 13:55	BASEBOARD	WOOD	C	INTACT	BROWN	1185 BURR	SECOND	front str	Positive	9.6	4.6
150	1/18/2012 13:56	closet floor	WOOD		PEELING	BROWN	1185 BURR	SECOND	front str	Negative	< LOD	0.17
151	1/18/2012 13:57	closet door	WOOD	A	INTACT	TAN	1185 BURR	SECOND	front str	Positive	< LOD	10.05
152	1/18/2012 13:57	closet door trim	WOOD	A	INTACT	TAN	1185 BURR	SECOND	front str	Positive	< LOD	9.9
153	1/18/2012 13:58	closet wall	PLASTER	A	CRACKEI	WHITE	1185 BURR	SECOND	front str	Negative	0.22	0.14
154	1/18/2012 13:58	closet ceiling	PLASTER	A	CRACKEI	WHITE	1185 BURR	SECOND	front str	Negative	0.23	0.12
155	1/18/2012 14:00	WALL	PLASTER	A	INTACT	WHITE	1185 BURR	SECOND	front room	Negative	< LOD	0.28
156	1/18/2012 14:01	CEILING	PLASTER		INTACT	WHITE	1185 BURR	SECOND	front room	Negative	< LOD	0.14
157	1/18/2012 14:02	WINDOW	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	front room	Positive	7.5	3.2
158	1/18/2012 14:02	WINDOW trim	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	front room	Positive	10.1	3.9
159	1/18/2012 14:02	BASEBOARD	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	front room	Positive	9.3	1.5
160	1/18/2012 14:04	closet wall	PLASTER	A	INTACT	WHITE	1185 BURR	SECOND	front room	Negative	< LOD	0.19
161	1/18/2012 14:04	closet baseboar	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	front room	Positive	9.6	4.3
162	1/18/2012 14:05	closet ceiling	PLASTER	A	INTACT	WHITE	1185 BURR	SECOND	front room	Negative	< LOD	0.33
163	1/18/2012 14:06	WALL	WOOD	C	INTACT	TAN	1185 BURR	SECOND	LIVING ROOM	Negative	< LOD	0.05
164	1/18/2012 14:06	BASEBOARD	WOOD	C	INTACT	TAN	1185 BURR	SECOND	LIVING ROOM	Negative	< LOD	0.07
165	1/18/2012 14:08	CEILING	WOOD		INTACT	WHITE	1185 BURR	SECOND	LIVING ROOM	Negative	< LOD	0.11
166	1/18/2012 14:10	closet wall	PLASTER	A	INTACT	black	1185 BURR	SECOND	LIVING ROOM	Negative	0.4	0.1
167	1/18/2012 14:10	closet baseboar	WOOD	A	INTACT	BROWN	1185 BURR	SECOND	LIVING ROOM	Positive	< LOD	10.35

168	1/18/2012 14:11	WALL	PLASTER	A	INTACT	WHITE	1185 BURR	SECOND	south room	Negative	< LOD	0.03
169	1/18/2012 14:12	CEILING	PLASTER		CRACKEI	WHITE	1185 BURR	SECOND	south room	Negative	< LOD	0.03
170	1/18/2012 14:12	BASEBOARD	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	south room	Positive	5.9	3
171	1/18/2012 14:13	WINDOW	WOOD	B	INTACT	WHITE	1185 BURR	SECOND	south room	Positive	4.8	2.3
172	1/18/2012 14:13	WINDOW trim	WOOD	B	INTACT	WHITE	1185 BURR	SECOND	south room	Positive	4.4	2.5
173	1/18/2012 14:14	DOOR trim	WOOD	D	INTACT	WHITE	1185 BURR	SECOND	south room	Positive	5.9	2.8
174	1/18/2012 14:15	WALL	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Negative	< LOD	0.17
175	1/18/2012 14:15	DOOR trim	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Negative	< LOD	0.06
176	1/18/2012 14:16	CABINET	WOOD	D	INTACT	BROWN	1185 BURR	SECOND	KITCHEN	Negative	< LOD	0.03
177	1/18/2012 14:16	CABINET	WOOD	B	INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Positive	7	3
178	1/18/2012 14:17	CEILING	WOOD		INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Negative	< LOD	0.16
179	1/18/2012 14:17	BASEBOARD	WOOD	B	INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Positive	7.3	3.2
180	1/18/2012 14:18	WINDOW	WOOD	B	INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Positive	12.2	3.1
181	1/18/2012 14:18	WINDOW trim	WOOD	B	INTACT	WHITE	1185 BURR	SECOND	KITCHEN	Positive	8.5	1.6
182	1/18/2012 14:19	WALL	PLASTER	A	INTACT	WHITE	1185 BURR	SECOND	BATHROOM	Positive	2.1	1
183	1/18/2012 14:20	CEILING	PLASTER		INTACT	WHITE	1185 BURR	SECOND	BATHROOM	Negative	< LOD	0.31
184	1/18/2012 14:20	BASEBOARD	WOOD	A	INTACT	WHITE	1185 BURR	SECOND	BATHROOM	Positive	8.2	3.5
185	1/18/2012 14:20	DOOR	WOOD	D	INTACT	WHITE	1185 BURR	SECOND	BATHROOM	Negative	< LOD	0.08
186	1/18/2012 14:21	DOOR trim	WOOD	D	INTACT	WHITE	1185 BURR	SECOND	BATHROOM	Positive	7.5	3.3
187	1/18/2012 14:23	FLOOR	WOOD	D	PEELING	Gray	1185 BURR	SECOND	back str	Positive	4	1.8
188	1/18/2012 14:24	closet door	WOOD	C	INTACT	WHITE	1185 BURR	SECOND	back str	Negative	< LOD	0.1
189	1/18/2012 14:25	closet wall	WOOD	C	INTACT	orange	1185 BURR	SECOND	back str	Negative	< LOD	0.21
190	1/18/2012 14:25	closet floor	WOOD		INTACT	BROWN	1185 BURR	SECOND	back str	Positive	13.6	5.3
191	1/18/2012 14:26	WINDOW	WOOD	D	PEELING	gray	1185 BURR	SECOND	back str	Negative	< LOD	0.21
192	1/18/2012 14:26	WINDOW trim	WOOD	D	PEELING	gray	1185 BURR	SECOND	back str	Negative	0.3	0.19
193	1/18/2012 14:27	DOOR	METAL	D	INTACT	gray	1185 BURR	FIRST	back str	Negative	< LOD	0.03
194	1/18/2012 14:28	DOOR trim	WOOD	D	INTACT	gray	1185 BURR	FIRST	back str	Negative	< LOD	0.13
195	1/18/2012 14:30	str. tread	WOOD		INTACT	BROWN	1185 BURR	BASEMENT	back str	Positive	4.7	1.4
196	1/18/2012 14:34	WALL	CONCRETE	B	POOR	WHITE	1185 BURR	BASEMENT		Negative	0.8	0.1
197	1/18/2012 14:35	CABINET	WOOD	C	FAIR	blue	1185 BURR	BASEMENT		Negative	0.4	0.2
198	1/18/2012 14:36	CABINET	WOOD	C	FAIR	pink	1185 BURR	BASEMENT		Positive	18.8	10.2
199	1/18/2012 14:37	CEILING	WOOD		FAIR	BEIGE	1185 BURR	BASEMENT		Negative	< LOD	0.09
200	1/18/2012 14:39	siding	Vinyl	C	INTACT	BEIGE	1185 BURR		OUTSIDE	Positive	11.6	4.8
201	1/18/2012 14:40	DOOR	METAL	C	INTACT	WHITE	1185 BURR		OUTSIDE	Negative	< LOD	0.03
202	1/18/2012 14:40	DOOR trim	METAL	C	POOR	WHITE	1185 BURR		OUTSIDE	Negative	< LOD	0.03
203	1/18/2012 14:41	soffet	METAL	C	INTACT	WHITE	1185 BURR		OUTSIDE	Positive	21	6.9
204	1/18/2012 14:41	foundation	CONCRETE	C	PEELING	TAN	1185 BURR		OUTSIDE	Negative	< LOD	0.17
205	1/18/2012 14:43	DOOR trim	WOOD	A	INTACT	BROWN	1185 BURR		OUTSIDE	Positive	9.4	2.8
206	1/18/2012 14:43	DOOR	WOOD	A	FAIR	BROWN	1185 BURR		OUTSIDE	Null	1.9	1.2
207	1/18/2012 14:43	DOOR	WOOD	A	FAIR	BROWN	1185 BURR		OUTSIDE	Positive	1.6	0.4

208	1/18/2012 14:45	WINDOW	WOOD	A	INTACT	WHITE	1185 BURR	OUTSIDE	Null	0.5	0.2
209	1/18/2012 14:45	WINDOW	WOOD	A	INTACT	WHITE	1185 BURR	OUTSIDE	Null	0.6	0.2
210	1/18/2012 14:46	WINDOW	WOOD	A	INTACT	WHITE	1185 BURR	OUTSIDE	Negative	< LOD	0.15
211	1/18/2012 14:46	WINDOW troug	METAL	A	INTACT	WHITE	1185 BURR	OUTSIDE	Positive	2.6	1
212	1/18/2012 14:48	overhead door	WOOD	A	POOR	pink	1185 BURR	GARAGE	Negative	< LOD	0.03
213	1/18/2012 14:48	DOOR trim	WOOD	A	PEELING	BROWN	1185 BURR	GARAGE	Negative	< LOD	0.03
214	1/18/2012 14:49	DOOR trim	WOOD	A	PEELING	BROWN	1185 BURR	GARAGE	Negative	< LOD	0.03
215	1/18/2012 14:49	DOOR	METAL	A	INTACT	WHITE	1185 BURR	GARAGE	Negative	< LOD	0.03
216	1/18/2012 14:50	WINDOW trim	WOOD	D	PEELING	WHITE	1185 BURR	GARAGE	Negative	< LOD	0.04
217	1/18/2012 14:51	cal out					1185 BURR		Positive	1.2	0.1
218	1/18/2012 14:51	cal out					1185 BURR		Positive	1.1	0.1
219	1/18/2012 14:52	cal out					1185 BURR		Positive	1.2	0.1

Minnesota Department of Health

has authorized

Angstrom Analytical, Inc.
5001 Cedar Lake Rd S
St Louis Park, Minnesota 55416

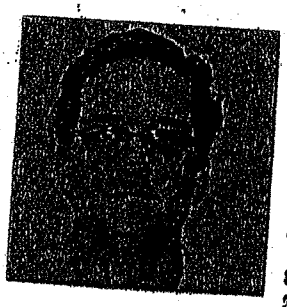
in accordance with Minnesota Statutes, section 144.9505 and Minnesota Rules, part 4761.2200, to practice in the State of Minnesota as a

Certified Lead Firm

License No: LF127
Expires 12/08/2012

This certificate is nontransferable.

Linda B. Bruemmer, Director
Division of Environmental Health



Director, Env. Health Div.

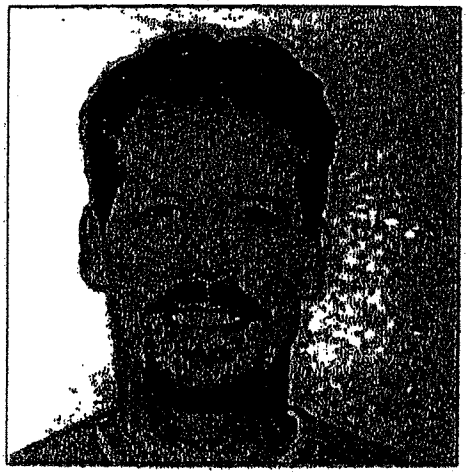
MDH

LEAD
Risk Assessor

Licensed by:
State of Minnesota
Department of Health

License No. LR1089
Expires 08/15/2012

Steve E Wallinga
310 Deerwood Ln N
Plymouth, MN 55441



Director, Env. Health Div.

MDH

LEAD
Risk Assessor

Licensed by:
State of Minnesota
Department of Health

License No. LR2036
Expires 09/19/2012

Kevin P Hagen
7038 Upper 36th St N
Oakdale, MN 55128

DEPARTMENT OF SAFETY AND INSPECTIONS
Ricardo X. Cervantes, Director

CITY OF SAINT PAUL
Christopher B. Coleman, Mayor

375 Jackson Street, Suite 220
Saint Paul, Minnesota 55101-1806

Telephone: 651-266-8989
Facsimile: 651-266-9124
Web: www.stpaul.gov/dsi

Code Compliance Report

April 06, 2012

Housing and Redevelopment
25 W 4th St Ste 1300
St Paul MN 55102

Re: 1185 Burr St
File#: 10 608274 VB2

Dear Property Owner:

The following is the Code Compliance report you requested on February 13, 2012.

Please be advised that this report is accurate and correct as of the date April 06, 2012. All deficiencies identified by the City after this date must also be corrected and all codes and ordinances must be complied with. This report is valid for 365 days from April 06, 2012. This report may be used in lieu of a Truth in Housing Report required in St Paul Legislative Code 189. This building must be properly secured and the property maintained at all times.

In order to sell or reoccupy this property the following deficiencies must be corrected:

BUILDING Inspector: Jim Seeger Phone: 651-266-9046

- Insure basement cellar floor is even, is cleanable, and all holes are filled.
- Install plinth blocks as needed under posts in basement & ensure adequate footing for load imposed.
- Tuck Point interior/exterior of foundation as necessary.
- Dry out basement and eliminate source of moisture.
- Remove mold, mildew and moldy or water damaged materials.
- Permanently secure top and bottom of support posts in an approved manner.
- Install 20 minute fire rated doors, with self closing device, between common areas and individual units. All penetrations required to have property intumescent device or caulk (per current building codes).
- Maintain one hour fire separation between dwelling units and between units and common areas.
- Install handrails (34 inches - 38 inches above each nosing) and guardrails (36 inch minimum) at all stairways, and return hand rail ends into a newel post or wall per attachment.
- Repair or Replace any deteriorated window sash, broken glass, sash holders, re-putty, etc as necessary.
- Provide functional hardware at all doors and windows

BUILDING Inspector: Jim Seeger Phone: 651-266-9046

- Provide complete storms and screens, in good repair for all door and window openings.
- Exit doors shall be capable of being opened from the inside, easily and without the use of a key. Remove all surface bolts.
- Repair or replace damaged doors and frames as necessary, including storm doors.
- Weather seal exterior doors, threshold and weather-stripping.
- Install floor covering in bathroom and kitchen that is impervious to water.
- Repair walls, ceiling and floors throughout, as necessary.
- Prepare and paint interior and exterior as necessary. Observe necessary abatement procedures (EPA, MPCA and St. Paul Legislative Code, Chapter 34 for additional information) if lead base paint is present.
- Any framing members that required repair or do not meet code (where wall and ceiling covering is removed, members that are over-spanned, over-spaced, not being carried properly, door and window openings that are not adequately supported, etc.) are to be reconstructed in an approved manner.
- Air-seal and insulate attic/access door.
- Install Smoke Detectors/Carbon Monoxide Detectors per MN Conservation Code and the MN Dept. of Labor and Industry: Install per code where feasible.
- Provide major clean-up of premises.
- Repair siding, soffit, fascia, trim, etc. as necessary.
- Provide proper drainage around house to direct water away from foundation of house.
- Provide proper drainage around house to direct water away from foundation of garage.
- Install downspouts and a complete gutter system on house and garage.
- Install rain leaders to direct drainage away from foundation.
- Install flashing in an approved manner at the intersection of the roof with walls, chimneys, and other conjoined surfaces.
- Provide general rehabilitation of garage.
- Review all applicable codes & policies when replacing windows including egress windows for sleeping rooms.
- Remove trees which are against foundation of home and garage.
- Grade must drain away from foundation of dwelling. Maintain 6 inch clearance between wood and soil.
- Replace all exterior window trim and properly install weather barrier and flashing to code. Call for inspection before covering.
- Replace over head garage door and service door.
- Install 1 hour fire rated wall at west and south garage walls.
- Properly repair basement windows and install window wells as needed.
- Remove suspended ceiling on first floor and insure 1 hour fire rated assembly between units.
- Replace cut off joist at rear of basement by plumbing stack about 3 joist.
- Remove all walls and ceiling coverings from basement and replace all decayed post and beams. Install footings where needed.
- Remove old heating plant and old fuel oil barrel.

BUILDING Inspector: Jim Seeger Phone: 651-266-9046

- Repair foundation at northwest side water coming in building.
- Install tempered glass in window over first floor bathtub and in window on rear stairs to second floor.
- Remove water damaged dry wall from garage.
- A building permit is required to correct the above deficiencies.

ELECTRICAL Inspector: Dan Moynihan Phone: 651-266-9036

- Ground the electrical service to the water service with a copper conductor within 5 feet of the entrance point of the water service
- Bond around water meter with a copper wire sized for the electrical service per Article 250 of the NEC
- Provide a complete circuit directory at service panel indicating location and use of all circuits
- Close openings in service panel/junction boxes with knockout seals, breaker blanks, and/or junction box covers
- Properly strap cables and conduits in basement conduit on the exterior of the house.
- Install/replace GFCI receptacle in first and second floor bathroom adjacent to the sink
- Ground bathroom light in first and second floor bathroom and disconnect receptacle on fixture
- Install globe-type enclosed light fixture on all closet lights
- Repair or Replace all broken, missing or loose light fixtures, switches and outlets, covers and plates
- Check all outlets for proper polarity and verify ground on 3-prong outlets. No power at time of inspection.
- Install hard-wired, battery backup smoke detector per bulletin 80-1 and other smoke detectors as required by the IRC. Also, Install carbon monoxide detector(s) within 10 feet of all bedrooms
- Install exterior lights at front/side/back entry doors
- Remove and or/ re-wire all illegal, improper or hazardous wiring in basement/garage. Remove illegal sub panel.
- Replace all moisture damaged electrical in basement.
- Remove or rewire first floor south bedroom closet light.
- Add a receptacle in first floor living room ARC Fault.
- Based on repair list purchase permit for 10 circuits.
- All added receptacles must be grounded, tamper-resistant and be on an Arc-Fault Circuit Interrupter-protected circuit.
- Any open walls or walls that are opened as part of this project must be wired to the standards of the current NEC.
- All buildings on the property must meet the St. Paul Property Maintenance Code (Bulletin 80-1).
- All electrical work must be done by a Minnesota-licensed electrical contractor under an electrical permit.

PLUMBING **Inspector: Rick Jacobs** **Phone: 651-266-9054**

- Basement - Water Heater - No gas shut off or gas piping incorrect (IFGC 402.1)
- Basement - Water Heater - T and P relief discharge piping incorrect (MPC 2210 Subp. 4)
- Basement - Water Heater - Vent must be in chimney liner (IFGC 501.12)
- Basement - Water Heater - Water piping incorrect (MPC 1730 Subp. 1)
- Basement - Water Heater - gas venting incorrect (IFGC 503)
- Basement - Water Heater - not fired or in service (MPC 2180)
- Basement - Water Meter - meter needs repair or is broken
- Basement - Water Meter - raise meter to a minimum 12 inches above floor (MPC 2280)
- Basement - Water Meter - remove meter from pit (MPC 88.08)
- Basement - Water Meter - service valves not functional or correct (MPC 1800 Subp 3,4)
- Basement - Water Meter - support meter properly (MPC 2280)
- Basement - Water Piping - improper fittings or usage (MPC 0420)
- Basement - Water Piping - improper piping or usage (MPC 0520)
- Basement - Water Piping - provide water piping to all fixtures and appliances (MPC 1700)
- Basement - Water Piping - repair or replace all corroded, broken or leaking piping (MPC 4715.1720) Also replace missing water piping to code.
- Basement - Water Piping - run 1 inch water line from meter to first major take off (SPRWS Water Code)
- Basement - Gas Piping - dryer gas shutoff; connector or piping incorrect (IFGC 402.1)
- Basement - Gas Piping - replace improper piping or fittings (IFGC 406.1.2) Also remove any unused gas piping to the main and cap or plug properly.
- Basement - Gas Piping - run dryer vent to code (IFGC 613.1 - IMC 604.1)
- Basement - Soil and Waste Piping - improper pipe supports (MPC 1430 Subp. 4)
- Basement - Soil and Waste Piping - no front sewer clean out (MPC 1000)
- Basement - Laundry Tub - faucet is missing, broken or parts missing (MPC 0200. P.)
- Basement - Laundry Tub - waste incorrect (MPC 2300)
- Basement - Laundry Tub - water piping incorrect (MPC 0200 P.)
- First Floor - Lavatory - waste incorrect (MPC 2300)
- First Floor - Sink - waste incorrect (MPC 2300)
- First Floor - Toilet Facilities - incorrectly vented (MPC 2500)
- First Floor - Tub and Shower - faucet incorrect air gap (MPC 0200. P.)
- First Floor - Tub and Shower - provide anti-scald valve (MPC 1380. Subp. 5)
- First Floor - Tub and Shower - provide stopper (MPC 1240)
- Second Floor - Gas Piping - range gas shut off; connector or piping incorrect (IFGC 411 1.3.3)
- Second Floor - Gas Piping - replace improper piping or fittings (IFGC 406.1.2)
- Second Floor - Sink - faucet is missing, broken or parts missing (MPC 0200.P.)
- Second Floor - Sink - waste incorrect (MPC 2300)
- Second Floor - Sink - water piping incorrect (MPC 0200 P.)
- Second Floor - Tub and Shower - Provide access (MPC 0900)
- Second Floor - Tub and Shower - provide stopper (MPC 1240)
- Second Floor - Tub and Shower - replace waste and overflow (MPC 1240)
- Exterior - Lawn Hydrants - none found at time of inspection

PLUMBING **Inspector: Rick Jacobs** **Phone: 651-266-9054**

- Comments: - Need permits for first floor bathroom fixtures that were added without permits or inspections. After permits are received, provide access for proper inspections. Verify the proper venting of the second floor fixtures.
- Obtain plumbing permits prior to commencement of work.

HEATING **Inspector: Maureen Hanson** **Phone: 651-266-9043**

- Install approved level handle manual gas shutoff valve on furnace and remove unapproved valve
- Clean and Orsat test both furnace burners. Check all controls for proper operation. Check furnace heat exchangers for leak; provide documentation from a licensed contractor that the heating units are safe
- Replace furnace flue venting to code
- Provide adequate clearance from flue vent pipe on furnace to combustible materials or provide approved shielding according to code
- Vent clothes dryer to code
- Provide adequate combustion air and support duct to code
- Provide support for gas lines to code
- Plug, cap and/or remove all disconnected gas lines
- Provide a window in the bathrooms with an aggregate glazing area of not less than 3 square feet, one-half of which must be openable or provide exhaust system vented to outside. A mechanical ventilation permit is required if an exhaust system is installed.
- All supply and return ducts for warm air heating system must be clean before final approval for occupancy. Provide access for inspection of inside of ducts or provide documentation from a licensed duct-cleaning contractor that the duct system has been cleaned.
- Repair and/or replace heating registers as necessary
- Provide heat in every habitable room and bathrooms
- Remove abandoned furnace from basement.
- A forced warm air heating system may only serve one dwelling unit - dwelling separation required.
- Undercut doors one inch above finished floor to rooms without ducted return air.
- Mechanical gas and warm air permits are required for the above work.

ZONING

1. This property is in a(n) R4 zoning district.
2. This property was inspected as a Single Family Dwelling.

Notes:

- See attachment for permit requirements and appeals procedure.
- Most of the roof covering could not be inspected from grade. Recommend this be done before rehabilitation is attempted.

This is a registered vacant building. In order to sell or reoccupy this building, all deficiencies listed on this code compliance report must be corrected in accordance with the Minimum Housing Standards of the St. Paul Legislative Code (Chapter 34) and all required permits must receive final approval within six (6) months of the date of this report. One (1) six-month time extension may be requested by the owner and will be considered if it can be shown that the code compliance work is proceeding and is more than fifty (50) percent complete in accordance with Legislative Code Section 33.03(f).

You may file an appeal to this notice by contacting the City Clerk's Office at 651-266-8688. Any appeal must be made in writing within 10 days of this notice. (You must submit a copy of this notice when you appeal, and pay a filing fee.)

If you have any questions regarding this inspection report, please contact Jim Seeger between 7:30 - 9:00 AM at 651-266-9046 or leave a voice mail message.

Sincerely,

James L. Seeger
Code Compliance Officer
Department of Safety and Inspections
City of Saint Paul
375 Jackson Street, Suite 220
Saint Paul MN 55101
Phone: 651-266-9046
Email: james.seeger@ci.stpaul.mn.us

JLS:ml
Attachments

Home Energy Rating Certificate

1185 Burr St

St Paul, MN 55106

3 Stars
Confirmed

Uniform Energy Rating System — **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: 165

General Information

Conditioned Area:	2856 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	24108 cubic ft.	Foundation:	Conditioned basement
Bedrooms:	3		

Mechanical Systems Features

Heating:	Fuel-fired air distribution, Natural gas, 80.0 AFUE.
Water Heating:	Conventional, Natural gas, 0.52 EF, 40.0 Gal.
Duct Leakage to Outside:	RESNET/HERS default
Ventilation System:	None
Programmable Thermostat:	Heating: No Cooling: No

Building Shell Features

Ceiling Flat:	R-11	Exposed Floor:	NA
Vaulted Ceiling:	NA	Window Type:	S W Op (w/St)
Above Grade Walls:	R-0	**Infiltration:**	
Foundation Walls:	R-0.0	Rate:	Htg: 4785 Clg: 4785 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Interior Lighting:	0.00	Range/Oven Fuel:	Natural gas
Percent Garage Lighting:	0.00	Clothes Dryer Fuel:	Natural gas
Refrigerator (kWh/yr):	691.00	Clothes Dryer EF:	2.67
Dishwasher Energy Factor:	0.46	Ceiling Fan (cfm/Watt):	0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.98

Registry ID:
Rating Number:
Certified Energy Rater: Michael Childs
Rating Date: 4/30/2012
Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost
Confirmed

Use	MMBtu	Cost	Percent
Heating	327.5	$3041	73%
Cooling	0	$0	0%
Hot Water	23.5	$212	5%
Lights/Appliances	31.6	$724	17%
Photovoltaics	-0.0	$-0	-0%
Service Charges		$180	4%
Total		**$4157**	**100%**

This home meets or exceeds the minimum criteria for all of the following:

TITLE
Company
Address
City, State, Zip
Phone #
Fax #

Home Energy Rating Certificate

1185 Burr St

St Paul, MN 55106

5 Stars Plus
Confirmed

Uniform Energy Rating System — **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: 70

General Information

Conditioned Area:	2856 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	24108 cubic ft.	Foundation:	Conditioned basement
Bedrooms:	3		

Mechanical Systems Features

Heating:	Fuel-fired hydronic distribution, Natural gas, 95.0 AFUE.
Cooling:	Air conditioner, Electric, 16.0 SEER.
Water Heating:	Conventional, Natural gas, 0.67 EF, 40.0 Gal.
Duct Leakage to Outside:	RESNET/HERS default
Ventilation System:	Exhaust Only: 60 cfm, 13.0 watts.
Programmable Thermostat:	Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat:	R-50	Exposed Floor:	NA
Vaulted Ceiling:	NA	Window Type:	NFRC .32 / .32
Above Grade Walls:	R-13	**Infiltration:**	
Foundation Walls:	R-0.0	Rate:	Htg: 2485 Clg: 2485 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Interior Lighting:	90.00	Range/Oven Fuel:	Natural gas
Percent Garage Lighting:	0.00	Clothes Dryer Fuel:	Natural gas
Refrigerator (kWh/yr):	691.00	Clothes Dryer EF:	2.67
Dishwasher Energy Factor:	0.46	Ceiling Fan (cfm/Watt):	0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.98

This information does not constitute any warranty of energy cost or savings.

Registry ID:
Rating Number:
Certified Energy Rater: Michael Childs
Rating Date: 4/30/2012
Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost

Confirmed

Use	MMBtu	Cost	Percent
Heating	115.5	$1046	51%
Cooling	1.6	$48	2%
Hot Water	18.8	$169	8%
Lights/Appliances	27.1	$606	30%
Photovoltaics	-0.0	$-0	-0%
Service Charges		$180	9%
Total		**$2049**	**100%**

This home meets or exceeds the minimum criteria for all of the following:

TITLE
Company
Address
City, State, Zip
Phone #
Fax #

Home Energy Rating Certificate

1185 Burr St

St Paul, MN 55106

3 Stars
Confirmed

Uniform Energy Rating System — **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: 165

General Information

Conditioned Area:	2856 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	24108 cubic ft.	Foundation:	Conditioned basement
Bedrooms:	3		

Mechanical Systems Features

Heating:	Fuel-fired air distribution, Natural gas, 80.0 AFUE.
Water Heating:	Conventional, Natural gas, 0.52 EF, 40.0 Gal.
Duct Leakage to Outside:	RESNET/HERS default
Ventilation System:	None
Programmable Thermostat:	Heating: No Cooling: No

Building Shell Features

Ceiling Flat:	R-11	Exposed Floor:	NA
Vaulted Ceiling:	NA	Window Type:	S W Op (w/St)
Above Grade Walls:	R-0	**Infiltration:**	
Foundation Walls:	R-0.0	Rate:	Htg: 4785 Clg: 4785 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Interior Lighting:	0.00	Range/Oven Fuel:	Natural gas
Percent Garage Lighting:	0.00	Clothes Dryer Fuel:	Natural gas
Refrigerator (kWh/yr):	691.00	Clothes Dryer EF:	2.67
Dishwasher Energy Factor:	0.46	Ceiling Fan (cfm/Watt):	0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.98

This information does not constitute any warranty of energy cost or savings.

Registry ID:
Rating Number:
Certified Energy Rater: Michael Childs
Rating Date: 4/30/2012
Rating Ordered For: City of Saint Paul

Estimated Annual Energy Cost
Confirmed

Use	MMBtu	Cost	Percent
Heating	327.5	$3041	73%
Cooling	0	$0	0%
Hot Water	23.5	$212	5%
Lights/Appliances	31.6	$724	17%
Photovoltaics	-0.0	$-0	-0%
Service Charges		$180	4%
Total		**$4157**	**100%**

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